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(BLOOD CHOLESTEROL) (HYPERTENSION)

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Clinical, hemodynamic and electrocardiographical effects of prolonged treatment with guanethidine or with combined guanethidine and cyclopenthiazide in hypertensive disease. Stud. cercet. med. intern. 4 no.1:57-82 '63.

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Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 8, No 3, May-Jun 63, pp 221-226.

Abstract [Authors' English summary modified]: A study of 3074 school children or children belonging to other closed communities in the city of Bucharest showed an average of 41.9 percent positive examinations, with the highest incidence in the 3 to 7 year age group. In 2 of the 9 children's communities studied, Ascaris and Trichuris eggs were found in the soil and Hymenolepsis nana eggs under the children's fingernails. Coproparasitologic examinations for 1119 adults on the staff of the communities showed 13.5 percent positive results. The complex anthelminthic measures taken resulted in a decrease of the infestation approaching eradication in some communities. Includes 3 tables and 2 Russian and 6 Rumanian references.

1/1

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TEODOROV T.

6283. (1323) TEODOROV T. "Surgical treatment of paronychia. Results obtained at the 13th polyclinic in Sofia during 1952-1954 (Bulgarian text) KHIRURGIJA (Sofia) 1956, 9/9 (816-822) Tables 3

Paronychia is a very frequent affection in man. Especially workers are affected. The author's observations in a total of 713 patients with paronychia treated by him are described. 407 were treated at the 6th polyclinic in Sofia in 1946-1948 and 306 at the 13th polyclinic in 1952-1955. The cases are presented in a schema according to the types of paronychia. Treatment was based on 3 principles: (1) good, wide and timely opening of the purulent focus; (2) the provision of satisfactory drainage of the pus; (3) immobilization. The treatment of the various kinds of paronychia is described. Prerequisites are: good anaesthesia and bloodless operation with the Esmarch bandage for good orientation. The number of patients has been decreased progressively these last few years and the time of treatment has been considerably reduced. This has been accomplished by (1) raising the standard of hygiene among workers through lectures and literature; (2) security and protective measures in industry; (3) timely medical aid by specialist-surgeons - cases are no longer postponed too long; (4) treatment with all available new drugs, such as sulphonamides and antibiotics.

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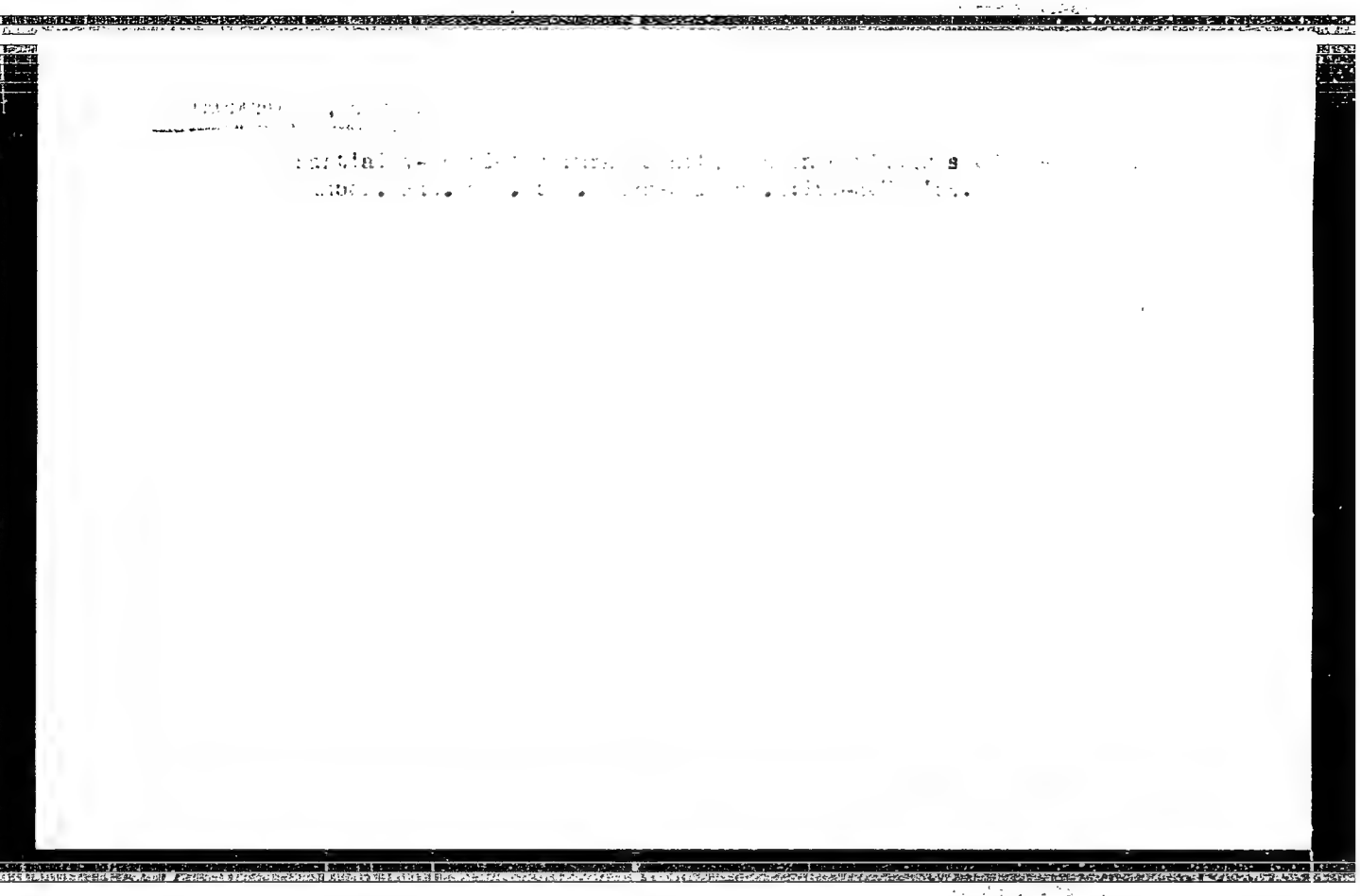

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L 04135-67 ARG/FSS-2/FBO/EWP(c)/EWP(h) DE/WW
ACC NR: AP6020195 (A) SOURCE CODE: YU/0009/65/000/006/0611/0619

AUTHOR: Teodorovic, Zoran (Lt. Col.); Rakic, Slobodan (Lt. Col)

52
B

ORG: none

TITLE: The planning and carrying out of squadron tactical exercises of fighter-interceptors in the territorial air defense system

SOURCE: Vazduhoplovni glasnik, no. 6, 1965, 611-619

TOPIC TAGS: air defense system, air force tactic, air force training, pilot training

ABSTRACT: In view of the development of nuclear weapons carried by aircraft, it became of paramount importance that the defense forces intercept and destroy in the air all enemy aircraft. To achieve the necessary degree of readiness, the tactical exercises must be carried out on a large scale involving entire squadrons. Consequently, the authors describe in considerable detail how such exercises should be planned, how the squadron should prepare for assignments, tactical flight dynamics, and the cooperation of fighter aircraft with surface-to-air missiles. It is of special importance that tasks and exercises in general be adjusted to the level of training of the pilots and the commanding personnel. Orig. art. has: 3 figures.

SUB CODE: 05,15/ SUBM DATE: none
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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

ACC NR: AP6010595 SOURCE CODE: YU/0009/65/000/004/0377/0384

AUTHOR: Teodorovic, Zoran (Lt. Col.)

ORG: none

TITLE: Commanding fighter aircraft within the territorial air defense system

SOURCE: Vazduhoplovni glasnik, no. 4, 1965, 377-384

TOPIC TAGS: fighter aircraft, air defense system, interceptor aircraft, air defense tactic, armed force organization

ABSTRACT: The commanding of fighter aircraft is discussed with regard to the rapid increase in flight speeds and flight altitudes, the improvements in modern navigation and other equipment, the increased efficiency of the means of war, and the appearance of advanced anti-aircraft means. The organization of the operational command of fighter aircraft is outlined. It is concluded that the time factor demands the establishment of a unified and centralized command of the fighter aircraft from the command post of the anti-aircraft defense. It must be kept in mind, however, that any centralization of command slows down the command process. A certain degree of freedom of individual decision-making should be maintained; this may be justified under special circumstances. The most important task of fighter unit leaders is to

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decide the most appropriate method for air combat according to the armament and capabilities of their aircraft and the tactical-technological capabilities and actions of the enemy. Since there is no universal fighting device designated for the anti-aircraft defense, the fighter aircraft should be incorporated in a manner which would complement and supplement their action with those of other anti-aircraft means. Orig. art. has: 4 figures.

SUB CODE: 15/ SUBM DATE: none

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"Review of the Ice Condition on the Sea of Azov during the Winter of 1941-1942," Trudy TsIP, No 3 ([illegible]), 1948 ([illegible])

SO: U-3039, 11 Mar 1953

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[illegible], A. ...

"New Criteria for Determining the Type of Sea Swell," Meteorol. i Gidrologiya, No 3, 1955, pp 54-56

A critical survey of the classifications, present and past in the USSR, of sea disturbance of swell (volneniye). At the basis of the new classification of sea swell proposed by the author lie the following conditions: (1) directions of propagation of systems of waves and wind are determined with an accuracy up to one even rhumb; (2) the degree of swelling is determined in accordance with a 10-ball scale; (3) the limiting deviation of wind direction from direction of swell propagation (when the wind is still acting on the waves) is two even rhumbs; (4) the type of sea swell is determined by the relation between the direction and degree of swell (heaving), the principal types assumed being: dead surge, surge (zyb'), wind swell, compound swell and pounding (tolcheya). In all there are 11 names (and numbers) of sea swell types with indication of their criteria and signs relative to wind direction and strength and swell and between wind strength and degree of sea swell. (RZhGeol, No 2, 1955) SO: Sum.No. 713, 9 Nov 55

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TEODOROVICH, A.A.

Numerical forecasting of currents in the northern narrow of the Kerch Strait. Trudy Okean.kom. 7:127-135 '60. (MIRA 13:7)

1. Gidrometeorologicheskaya observatoriya Chernogo i Azovskogo morey.
(Kerch Strait--Ocean currents)

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TEODOROVICH, B.A., gornyy inzhener.

Hydraulic coal mining in the "Tyrganskie ukleny" mine and further improvements in the new technology. Mekh. trud.rab.9 no.11:13-18 N '55. (Hydraulic mining) (MLRA 9:2)

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SOV/112-58-3-4520

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 161 (USSR)

AUTHOR: Teodorovich, B. A., and Tsyapko, N. F.

TITLE: Problems of Process Automation in Underground Hydraulic Coal Mining (Voprosy avtomatizatsii proizvodstvennykh protsessov pri podzemnoy gidravlicheskoy dobyche uglya)

PERIODICAL: Sb. tr. nauchn. konferentsii, Nr 1, Kemerovo, 1957, pp 245-275

ABSTRACT: A principal scheme of underground hydraulic coal mining, conditions for automation, and automation objectives are considered. Cutting processes involved in the hydromining system, associated with automation of the hydro-monitor control, are considered in detail. Experimental models of hydraulically-controlled hydromonitors designed by KuzNIUI and by the Kuznetsk Branch Office of Gidrouglemash will be provided with program-controlled automatic devices. The type GDTs-2 hydraulically remote-controlled hydromonitor will operate in conjunction with an automatic-control unit that will

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actuate the control levers. The hydromonitor will be controlled according to a program recorded on a ferromagnetic film. The control program will be prepared by a highly qualified worker; his actions will be recorded during one cycle of stoping or developmental work. Then, the automatic-control unit will be switched over to production, and the hydromonitor will repeat the program in a new cycle. The control unit consists of a master oscillator, master-oscillator pulse amplifiers, a storing device, a direct-coupling and feedback unit, a control-pulse amplifier, and servoactuators of trunk-swing mechanisms. In the direct-control system, the worker turns the levers controlling the hydromonitor-trunk lifting and slewing movements; the amplifiers receive signals whose magnitude depends on the lever positions; the amplifier output is fed to the recorder of the storing device. Immediately after the recording, the pulses are read out by the reproduction heads and, after amplification, are fed to the servoactuator; the latter actuates the mechanism of the hydromonitor

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SOV/112-58-3-4520

Problems of Process Automation in Underground Hydraulic Coal Mining

trunk. Thanks to the feedback, only one definite position of the trunk corresponds to a given signal value. A practical scheme currently being studied is presented. Further improvement of the automatic hydromonitor control is seen in using the information obtained from pickups that would respond to the hardness of coal and adjacent rock and to the layer geometric parameters; also, using an acoustic or radio location of the heading face is considered. This information will be fed to a computer that will issue commands to the end devices of mining machinery, etc. A block diagram and a simplified circuit of program control for a hydromonitor are presented. Illustrations: 13. Bibliography: 2 items.

S.A.P.

Card 3/3

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GLINORYBOV, Yakov Il'ich, inzh.; OKHRIMENKO, Veniamin Antonovich, inzh.. Prinimal uchastiye: TEODOROVICH, B.A.; KHARCHENKO, A.F., otv. red.; KORCHEVA, T.I., red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Ways of increasing the effectiveness of underground hydraulic coal mining] Puti povysheniia effektivnosti podzemnoi gidrodobychi uglia. Moskva, Ugletekhizdat, 1959. 205 p. (MIRA 12:8)

(Coal mines and mining) (Hydraulic mining)

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TEODORCVICH, B. A., Cand Tech Sci -- (diss) "Research into methods of clearing extractions of steep layers in underground hydromechanization." Leningrad, 1960. 12 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Orders of Lenin and of Labor Red Banner Mining Inst im G. V. Plekhanov); 200 copies; price not given; printed on duplicating machine; (KL, 22-60, 159)

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TEODOROVICH, B.A., kand.tekhn.nauk; KHVOSHCHEVSKIY, N.M., inzh.;
SAL'NIKOV, V.R., inzh.; ZAPREYEV, S.I., inzh.

Sublevel hydraulic coal breaking system with powered collapsible metal supports and their mechanized assembly in the erection area. Trudy VNIIGidrouglia no.1:25-32 '62. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom (for Teodorovich, Khvoshchevskiy, Sal'nikov). 2. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Zapreyev).

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

KARACHENTSEV, Valentin Ignat'yevich; KODENTSOV, Aleksey Yakovlevich; BUROV, Mikhail Zinov'yevich; TEOLOKOVICH, B.A., kand. tekhn. nauk, retsenzent; ARKHIPOV, N.A., inzh., otv. red.; OKHRIMENKO, V.A., red. izd-va; LOMILINA, L.N., tekhn. red. MAKSIMOVA, V.V., tekhn. red.

[Hydraulic mining] Gidromekhanizatsiia na shakhtakh. Moskva, Gosgortekhizdat, 1963. 192 p. (MIRA 17:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

MUCHNIK, V.S., prof., doktor tekhn. nauk; TEODOROVICH, B.A., kand. tekhn. nauk; ZHABIN, G.I., inzh.; SAL'NIKOV, V.R., inzh.

Automatic shield used for the undercutting of a thing layer from a coal block by means of a strong jet of water. Trudy VNIIGidrouglia no.2:3-12 '63. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, B.A., kand. tekhn. nauk

Classification of mechanized hydraulic mining systems. Trudy VNIIGidrouglia no.3:60-70 '63 (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TFODOROVICH, B.A., kand. tekhn. nauk

Selecting the location for sinking shafts in a hydraulic mine according to hydraulic conveying conditions. Trudy VNIIGidrouglia no.4:12-17 '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOR(VICH, B.A., kand. tekhn. nauk

Perfecting the existing hydraulic mining systems. Ugol' 39 no.9: 28-31 S '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut dobychi uglya gidravlicheskim sposobom.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

NUROK, Grigoriy Arkad'yevich, prof., doktor tekhn. nauk. Prini-
nimali uchastiye: TRAYNIS, V.V., kand. tekhn. nauk; [illegible]
K.G., dots., kand. tekhn. nauk; [illegible], B.A., kand.
tekhn. nauk; MUCHNIK, V.S., prof., doktor tekhn. nauk,
retsenzent; NOVOZHILOV, M.A., prof., doktor tekhn. nauk,
retsenzent; IVANOV, A.Ye., otv. red.; NURMUKHAMEDOVA, V.F.,
red.; KHOLIN, N.D., prof., red.

[Technology and planning of the hydraulic mechanization of
mining operations] Tekhnologiia i proektirovanie gidromekha-
nizatsii gornykh rabot. Moskva, Nedra, 1965. 578 p.
(MIRA 18:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

AUTHOR TEODOROVICH E.V., KOLESNIKOV N.N. PA - 2704

TITLE The Part Played By the Three-Particle Forces in the Three-Body Problem (Pol'trekhchastichnikh sil v zadache trekh sil, -Russian)

PERIODICAL Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 2, pp 392-393, (U.S.S.R.)

Received 5/1957 Reviewed 6/1957

ABSTRACT Indications exist for the fact that taking account of the three-particle forces emproves the agreement between theoretically ocmputed energy values of light nuclei and the experiment. On the occasion of the computation of the distribution of the three-particle forces the authors confined themselves to the three-body-problems: a) to the computation of the binding energy of H^3 and He^3, b) to the computation of the cross section of the scattering of neutrons by a deuteron.

For reasons of simplicity the non-centrality and the dependence on spin of the two-particle nuclear forces are not taken into consideration. The authors chose the following sum as an operator of the total energy of tritium: $$H = -\sum_{i<j} V_0 \frac{\exp\{-\gamma r_{ij}\}}{\mu r_{ij}} + f \frac{K_1(\mu(r_{12}+r_{23}+r_{31}))}{\mu^3 r_{12} r_{23} r_{31}} + \frac{\hbar^2}{2M}(\nabla_1^2+\nabla_2^2+\nabla_3^2).$$

Here the first term denotes the usual two-particle interaction and the term of the three-particle interaction was chosen in the same manner as in the work by S.DRELL, K.HUANG, Phys.Rev., 91, 1527 (1953) and A.KLEIN, Phys. Rev. 89, 1158 (1953). The constant f was not fixed and determined in such a manner that the exact binding energy of H^3 resulted. The choi-

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The Part Played By the Three-Particle Forces in the Three-Body Problem PA - 2704

ce of the trial function takes the slight probability of the simultaneous exterior approximation of three particles into account. In this manner the authors found f = 153 MeV which agrees with respect to orders of magnitude with the works by S.DRELL and K.HUANG. At He^3 the numerical value of the COULOMB energy was very near the experimental value, while poorer results were obtained if the three-particle forces were not taken into consideration. The phases of the scattered waves were determined by SCHWINGER's variation method with a trial function of the form (a + br) sin kr + (c + dr) cos dr. Here a,b,c, denote variation parameters. The total effictive cross sections are given in a table. The following variations are here distinguished: a) If only interaction in pairs is taken into account. b) If only interaction in pair and three-particle interaction with f = 153 MeV is taken into account. Considering the three-particle forces somewhat improves agreement with the experiment. The part played by three-particle interaction in the nuclei, however, is comparatively small and is not the main reason for the saturation of the nuclear forces. (1 Table).

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SUBMITTED 10.11.1956
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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, E.V.

56-3-55/59

AUTHOR: Teodorovich, E.V.

TITLE: The Influence Exercised by the Structure of the Proton on the Lamb Shift (Vliyaniye struktury protona na lembovskiy sdvig) (Letter to the Editor)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3 (9), pp. 823 - 825 (USSR)

ABSTRACT: The difference between experimental and theoretical values of the Lamb shift in hydrogen amounts to 0,6 megacycles after taking account of the electromagnetic processes of fourth and fifth order and the mass corrections. This difference can partly be explained by the existence of a structure of the proton (smeared state of the proton charge). Previous papers dealing with the same subject are mentioned. The author here uses the method of the precisely defined wave functions known from the theory of the isotope shifting for the computation of the shifting of the level of the hydrogen. The shifting of the level is here determined by the effective modification of the principal quantum number $\Delta E = \alpha^2 mc^2 n^{-3} \Delta n$, $\alpha = e^2/\hbar c$ and Δn is determined from the condition of the fusion of the solutions for the interior and the exterior domain. This expres-

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The Influence Exercised by the Structure of the Proton on the Lamb Shift

sion for Δn is here specialized for the $S_{1/2}$ level. If the fusion radius is assumed to be sufficiently large compared to the dimensions of the domain of the charge distribution, a general formula is found for Δn, which depends upon the charge distribution only by way of the average square radius:

$\Delta n = (2/3)\alpha^4 \langle r^2 \rangle / r_0^2$, $\Delta E(\text{megacycle}) = (\alpha^6 c/3\pi\lambda n^3)\langle r^3 \rangle / r_0^2 (\lambda = \hbar/mc)$. When using the experimental values for the average square radius $(7,7 \pm 0,1) \cdot 10^{-14}$cm, $\Delta E = (0,117 \pm 0,030)$ megacycles is obtained. Thus, taking account of the proton volume, the difference between theory and experiment is decreased a little, namely from 0,6 to 0,5 megacycles. Further final conclusions on the influence exercised by the structure of the elementary particles on the Lamb shift can be obtained only after taking account of the electromagnetic processes of fifth order and after an increase of experimental accuracy. An analogous method is suited for the computation of the correction to superfine structure and by taking account of the proton volume. There are 6 references, 2 of which are Slavic.

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56-3-55/59

The Influence Exercised by the Structure of the Proton on the Lamb Shift

ASSOCIATION: Moscow State University
(Moskovskiy gosudarstvennyy u iversitet)

SUBMITTED: June 22, 1957

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

SOV/48-22-8-13/20

AUTHOR: Teodorovich, E. V.

TITLE: Volume Corrections of the Lamb Shift of Energy Levels (Ob"yemnyye popravki k lembovskomu smeshcheniyu urovney energii)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 8, pp. 985 - 987 (USSR)

ABSTRACT: Until recently a difference of the order of 0,6 MHz existed between the experimental and the theoretical values for the Lamb shift, which could not be explained. Now a new value of the fine-structure constant

($\frac{1}{\alpha}$ = 137,039 instead of $\frac{1}{\alpha}$ = 137,036)

and a new value for the electromagnetic corrections of highest order of the Lamb shift were obtained, taking into account the new value of the magnetic moment of the electron. Thus, results of 1057,82 MHz for hydrogen and of 1058,47 MHz for deuterium were obtained. They did, however, not take into account the nuclear volume. Accurate measurements of the Lamb shift are available, which is dependent on a number of important factors (magnetic moments, charge, structure). Hence an accurate

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Volume Corrections of the Lamb Shift of Energy Levels

consideration of the influence of the nuclear volume and of the proton appeared to be of importance. The electron wave function in particular must be taken into consideration at the expense of the smearing of nuclear charge and of the proton. In order to obtain a formula for the volume corrections, the author used the method of the so-called precised wave function (Refs 6, 9, 10). In the exterior domain the solution is given by a combination of Whittaker (Uitteker) functions which converge exponentially in the infinite at arbitrary principal quantum numbers. If n is an integer, this solution is transformed into a simple solution given by combinations of hypergeometrical functions. It must be emphasized that the formula for $\Delta E^{(2)}$ determined by the author in the theory of hyperfine-structure is applicable and can be used in the experimental determination of the fine-structure constant. The computation of the volume corrections of the Lamb shift only requires a knowledge of the mean radius of the charge distribution. According to Hofstadter (Khofstadter) this radius is $\overline{r}_H = 0,77 \cdot 10^{-13}$cm and $\overline{r}_D = 1,96 \cdot 10^{-13}$cm for hydrogen and

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Volume Corrections of the Lamb Shift of Energy Levels

deuterium, respectively. The author also computed the volume correction in tritium:

$\overline{r}_T = 1,42 \cdot 10^{-13}$ cm (taking into account the proton volume).

The following final optimum volume corrections have been computed from the viewpoint of modern theory:

$$S_H = 1057,90 \pm 0,13$$

$$S_D = 1057,10 \pm 0,13$$

$$S_T = 1058,99 \pm 0,13$$

There are 11 references, 3 of which are Soviet.

ASSOCIATION: Kafedra statisticheskoy fiziki i mekhaniki Moskovskogo gos. universiteta im. M. V. Lomonosova (Chair of Statistical Physics and Mechanics at the Moscow State University imeni M. V. Lomonosov)

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Volume Corrections of the Lamb Shift of Energy Levels

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24(5)
AUTHOR: Teodorovich, E. V.

SOV/20-126-6-24/67

TITLE: The "Latent Structure" in the Model by Lie ("Skrytaya struktura" v modeli Li)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1236 - 1237 (USSR)

ABSTRACT: The present paper deals with the case presented by the Lie model, in which the coupling constant is not in the normal range, and the possibility is investigated of there being a latent structure. The author proceeds from the Hamilton system of the free field; the two quantum numbers Q_1 and Q_2, exhibited by the total Hamilton system, are specified, and the state is written down for the zone $Q_1 = 1$ and $Q_2 = 0$. From the Schroedinger equation the equation system of amplitudes is then obtained, and the function $h(z)$ is derived therefrom, which is graphically shown in figure 1 to apply for the case in which $h(z) = 0$ does not have any other root than $z = 0$. The resulting statement is that the second state of the physical V-particles in the considered variant of Lie model theory is missing, and that the scattering cross section is somewhat larger in this case, as compared to

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the common variant of the model. In the case of the coupling constant being outside the normal zone, viz. not far from the critical value, the hermiticity of the Hamiltonian may be restored by the introduction of the second state of the latent structure. Finally, the coupling constant in the pion theory most likely lies outside the normal zone. The author expresses his gratitude to Professors D. D. Ivanenko and A. M. Brodskiy for discussions, and B. V. Medvedev and M. K. Polivanov for their critical remarks. There are 1 figure and 10 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: March 20, 1959, by N. N. Bogolyubov, Academician

SUBMITTED: March 18, 1959

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, E.V. [translator]; KHIMENKOV, Yu.V. [translator]; BRODSKIY, A.M., red.; LARIN, S.I., red.; POTAPENKOV, Ye.V., tekhn.red.

[New method in the theory of strong interactions; double dispersion representations] Novyi metod v teorii sil'nykh vzaimodeistvii; dvoinye dispersionnye predstavleniia. Sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1960. 358 p. Translated from the English. (MIRA 14:4)
(Nuclear reactions)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

S/139/60/000/004/039/0. .
E031/E413

AUTHOR: Teodorovich E.V.

TITLE: On the Asymptote of the Peak Function

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy Fizika, 1960 No.4, pp.83-86

TEXT: The problem of the asymptotic behaviour of the peak function for large transmitted impulses was studied by H.Lehmann et al (Ref.1). With the aid of a particular example it was shown that the peak function must vanish for large k^2. This conclusion arising from the exclusion of the solution for spectral densities with false singularities of the type "ghost states", is not sufficiently fundamental. The hypothesis of anasymptotically vanishing peak functions contradicts the experimentally observed constancy of the cross-section in the region of large energies and also the modern theoretical representation of the structure of the charge. In solving the integral equation for the spectral density, e.g.

$$\rho(t) = k(t)\left\{\pi^2\rho^2(t) + \left[\frac{1}{t+1} + P\int_0^{\infty}\frac{\rho(t')dt'}{t - t'}\right]\right\} \qquad (1)$$

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E031/E413

On the Asymptote of the Peak Function

Lehmann et al did not find all clases of solutions. To solve Eq.(1) we introduce a function $\eta(t) = \rho(t)(t+1)^2/k(t)$ and a function $\xi(t)$ defined by Eq.(2). The resulting system of equations can be solved by the method of Chew and Low (Ref.6). Solutions for the two cases defined by Eqs.(4a) and (5a) are quoted. The first solution was found by Lehmann et al. From the above analysis the author concludes that there are no restrictions on the asymptote of the peak function. There are 11 references. 3 Soviet, 6 English, 1 Italian and 1 Danish.

ASSOCIATION: Moskovskiy gosuniversitet imeni M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

SUBMITTED: November 25, 1959

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, E.V.

Pipn-pion interaction and the electromagnetic structure of a nucleon in the static theory. Zhur. eksp. i teor. fiz. 39 no.2:476-479 Ag '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet.
(Nucleons)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, E. V., Cand phys-Math Sci -- "Certain problems of the ~~nucleons~~ of the nucleon electromagnetic structure." Tbilisi, Pub House of Tbilisi U, 1961. (Tbilisi State U im Stalin) (KL, 8-61, 229)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, E.V.

On a possible method for converting thermal energy with electric energy. Zhur. tekh. fiz. 32 no.12:1490-1492 D '62. (MIRA 16:2)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut, Moskva.
(Electron gas)
(Thermionic emission)

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L 23763-66 EWT(1)/T IJP(c) GG
ACC NR: AP6008107 SOURCE CODE: UR/0139/66/000/001/0033/0036

AUTHOR: Teodorovich, E. V.

ORG: All-Union Scientific Research Institute of Current Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka); All-Union Extension Polytechnic Institute (Vsesoyuznyy zaochnyy p litekhnicheskiy institut)

TITLE: On the optimal distribution of impurities through the interior of a thermocouple

SOURCE: IVUZ. Fizika, no. 1, 1966, 33-36

TOPIC TAGS: thermocouple, semiconductor impurity, semiconductor carrier, carrier density, distribution function, Fermi gas, elect gas, resistivity, thermal conduction, phonon

ABSTRACT: The author obtains the distribution function of the carrier (impurity) density in a thermocouple such as to yield maximum efficiency. An efficiency parameter is defined in terms of the Seebeck coefficient, the thermal conductivity coefficient, and the

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resistivity, while the thermodynamic parameters of the material are regarded as functions of the Fermi energy. The solution is written out for the Fermi energy which maximizes the efficiency parameter and an approximate solution is obtained for the case when the electron gas is not degenerate. It is shown that the maximum parameter is obtained when the product of the resistivity by the phonon thermal conductivity of each leg of the thermocouple is constant. The calculated efficiency for a lead telluride thermocouple with lead iodide impurities is 7.62%. Comparative calculations with other optimality criteria gave values of 6.23% for the entire temperature interval covered by the thermocouple, and 6.98% if an optimization method is used whereby the optimal impurity concentration is determined from the requirement that the maximum efficiency be obtained for each point of the temperature interval. This shows that optimization with respect to each point is not very effective. Orig. art. has: 13 formulas.

SUB CODE: 20/ SUBM DATE: 03Jun64/ ORIG REF: 003/ OTH REF: 005

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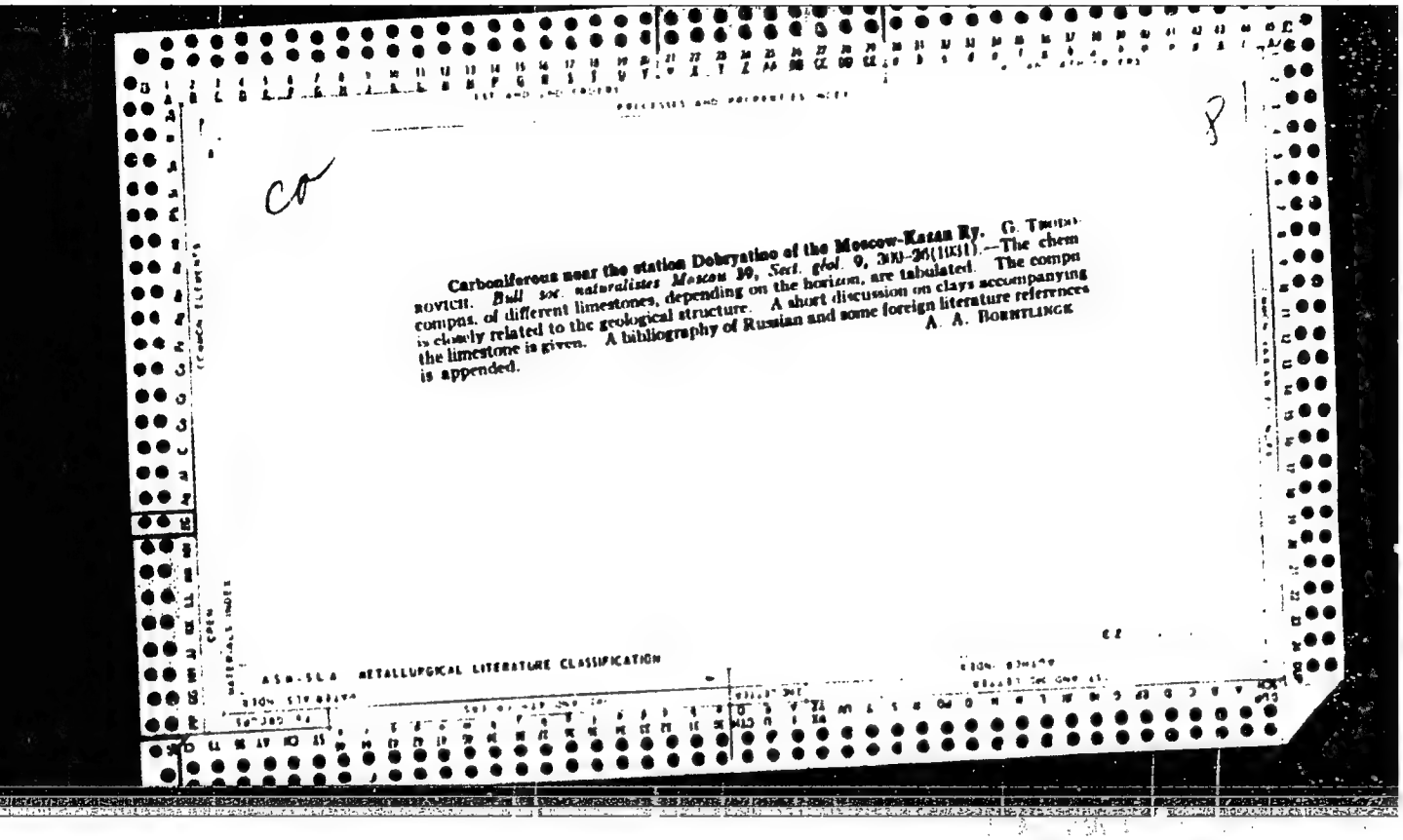

Carboniferous near the station Dobryatino of the Moscow-Kazan Ry. G. TH[illegible]ROVICH. *Bull soc. naturalistes Moscou* 39, *Sect. géol.* 9, 309–26(1931).—The chem compns. of different limestones, depending on the horizon, are tabulated. The compn is closely related to the geological structure. A short discussion on clays accompanying the limestone is given. A bibliography of Russian and some foreign literature references is appended.

A. A. BOEHTLINGK

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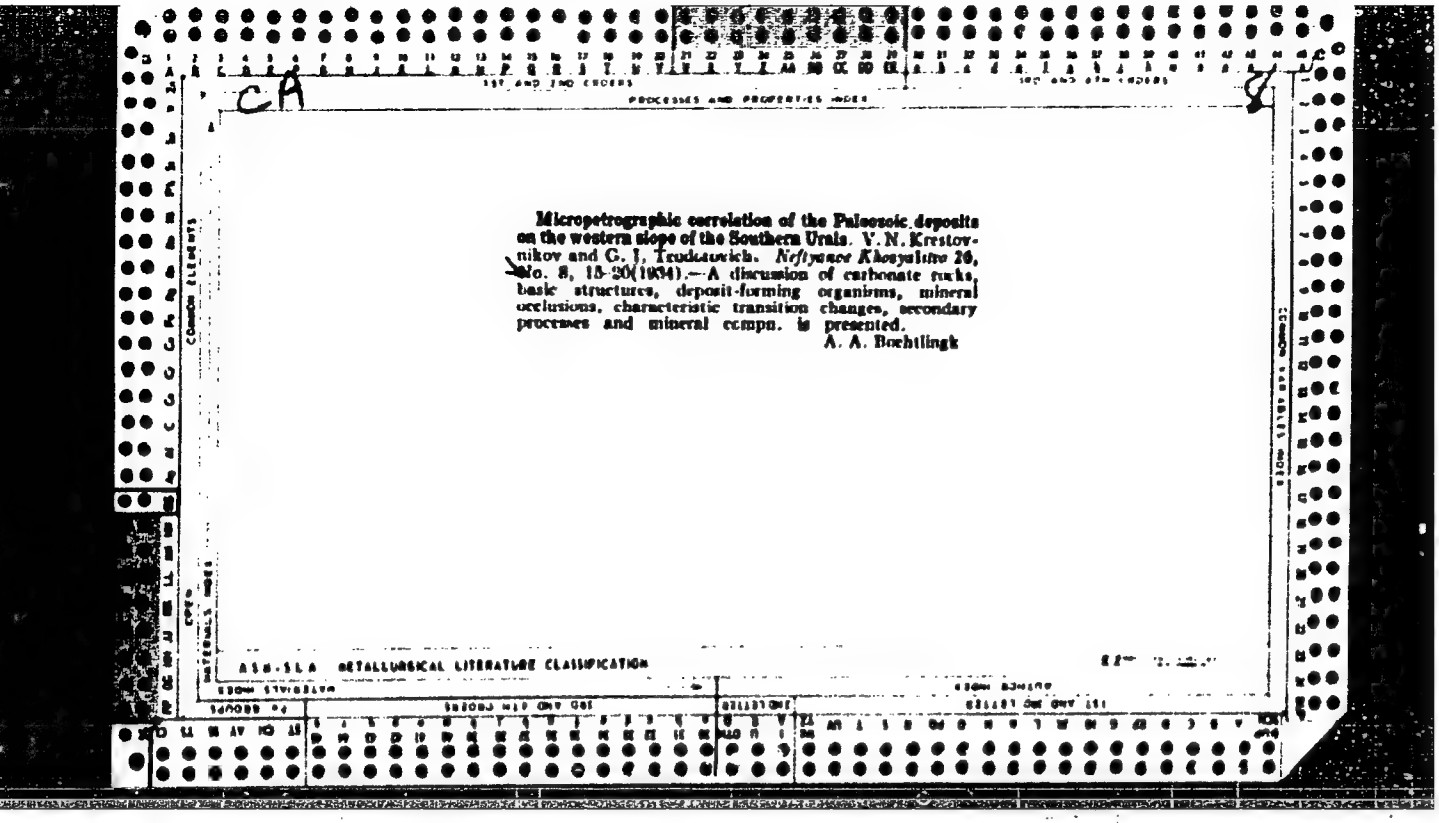

Micropetrographic correlation of the Paleozoic deposits on the western slope of the Southern Urals. V. N. Krestovnikov and G. I. Teodorovich. *Neftyanoe Khozyaistvo* 20, No. 8, 15-20(1934).—A discussion of carbonate rocks, basic structures, deposit-forming organisms, mineral occlusions, characteristic transition changes, secondary processes and mineral compn. is presented.
A. A. Bochtlingk

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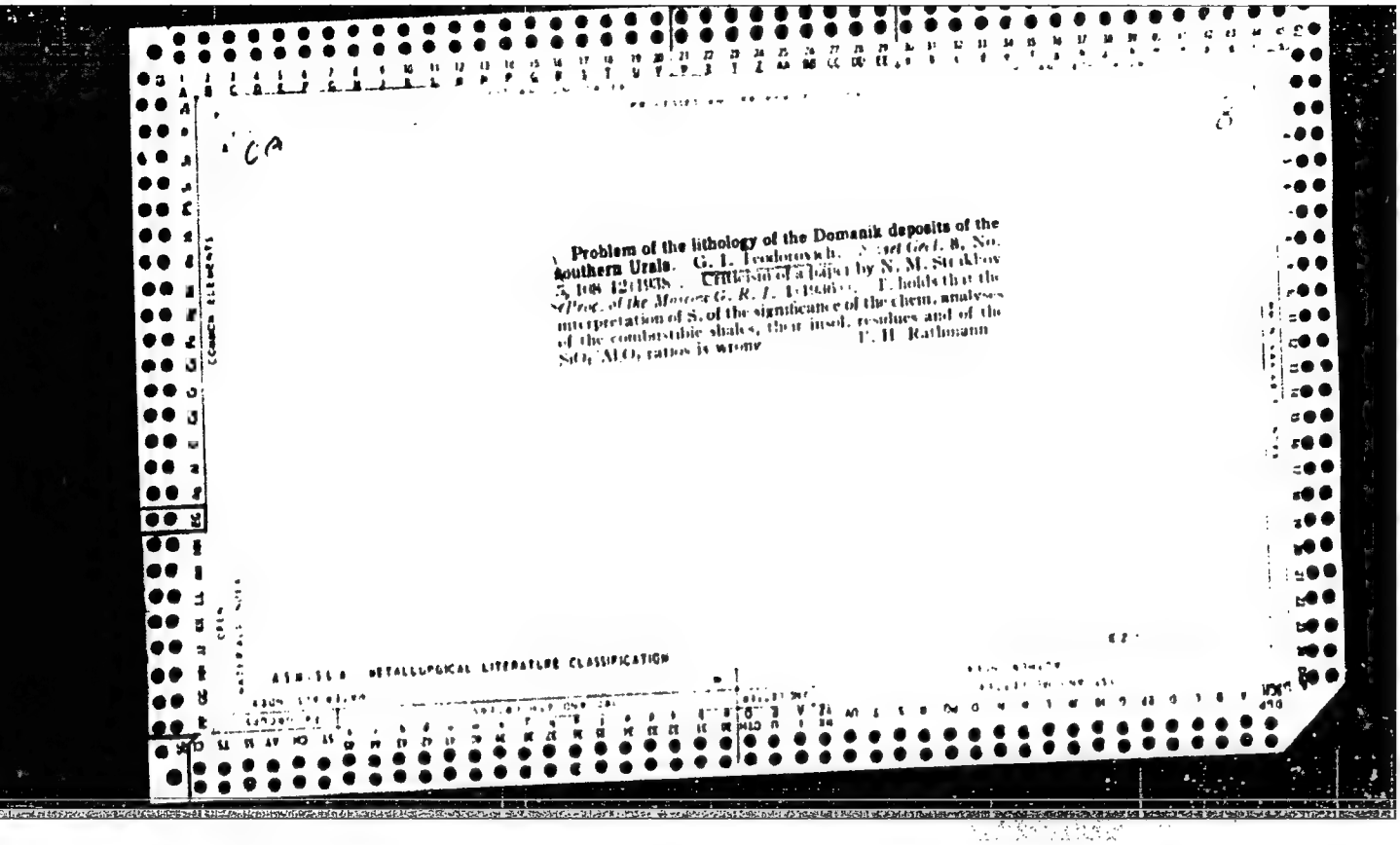
CA



Problem of the lithology of the Domanik deposits of the southern Urals. G. I. Teodorovich. *Sovet Geol.* 8, No. 5, 108-12(1938). Criticism of a paper by N. M. Strakhov (*Proc. of the Moscow G. R. I.* 1(1936)). T. holds that the interpretation of S. of the significance of the chem. analyses of the combustible shales, their insol. residues and of the SiO_2/Al_2O_3 ratios is wrong. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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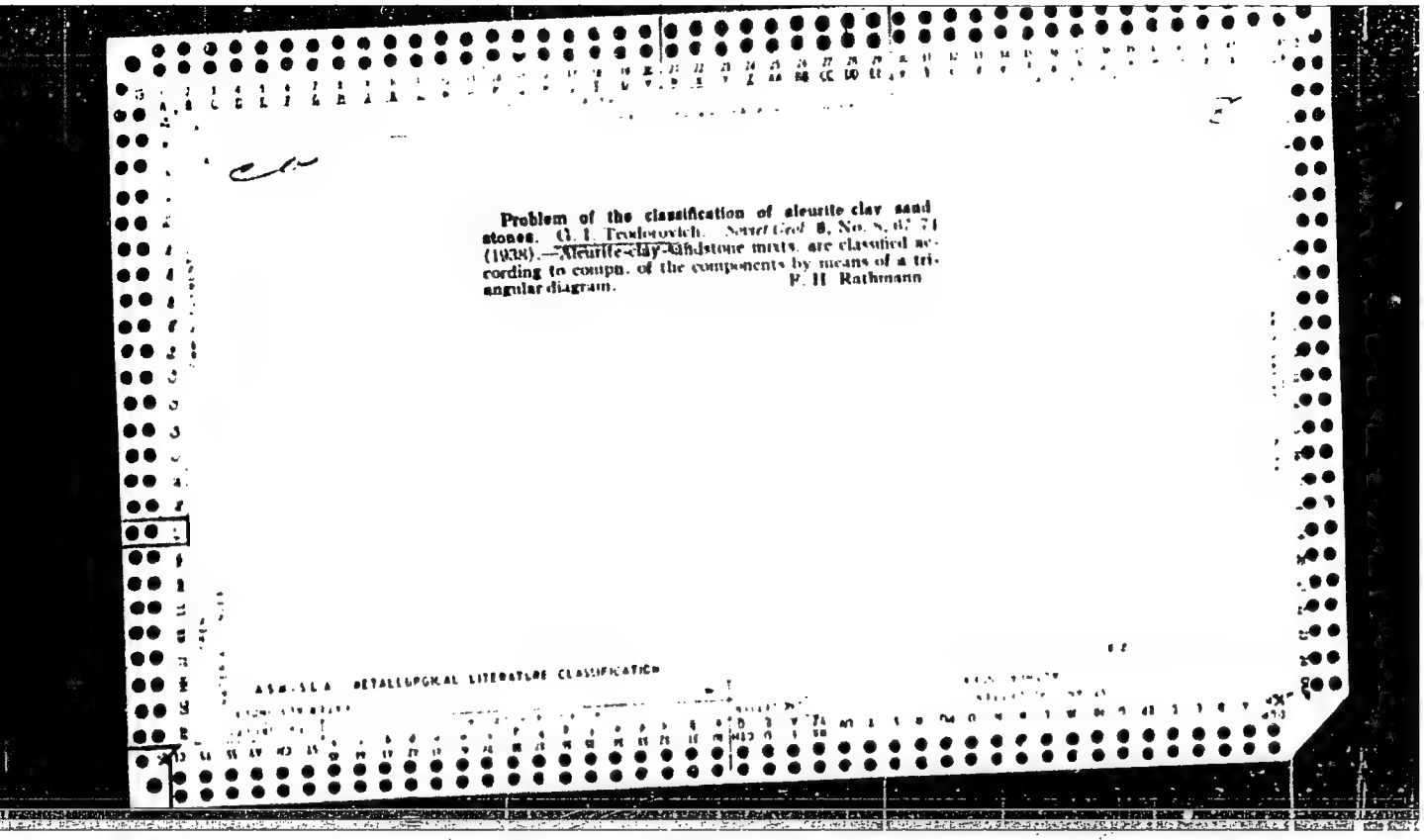

Problem of the classification of aleurite clay sand stones. G. I. Teodorovich. *Sovet Geol.* 8, No. 5, 67-74 (1938).—Aleurite-clay-sandstone mixts. are classified according to compn. of the components by means of a triangular diagram.
P. H. Rathmann

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TEODOROVICH, G. I.

K VOPROSY O RASSHIRENNOY KLASSIFIKATSII OBLOMOCHNYKH POROD, 1939

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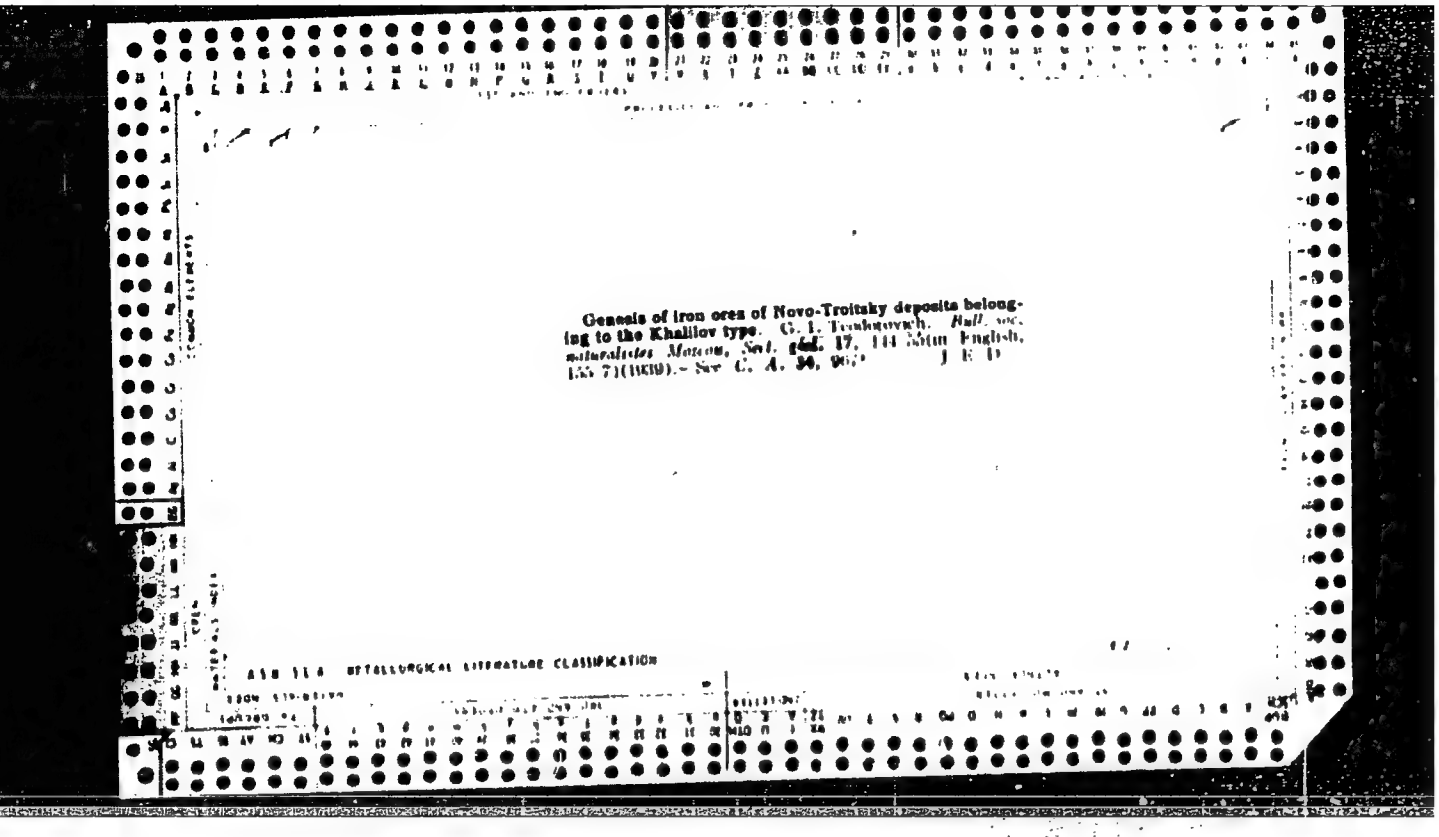

Genesis of iron ores of Novo-Troitsky deposits belonging to the Khalilov type. G. I. Teodorovich. *Bull. soc. naturalistes Moscou, Sect. géol.* 17, 144-55(in English, 155-7)(1939).—See *C. A.* 34, 967. J. E. D.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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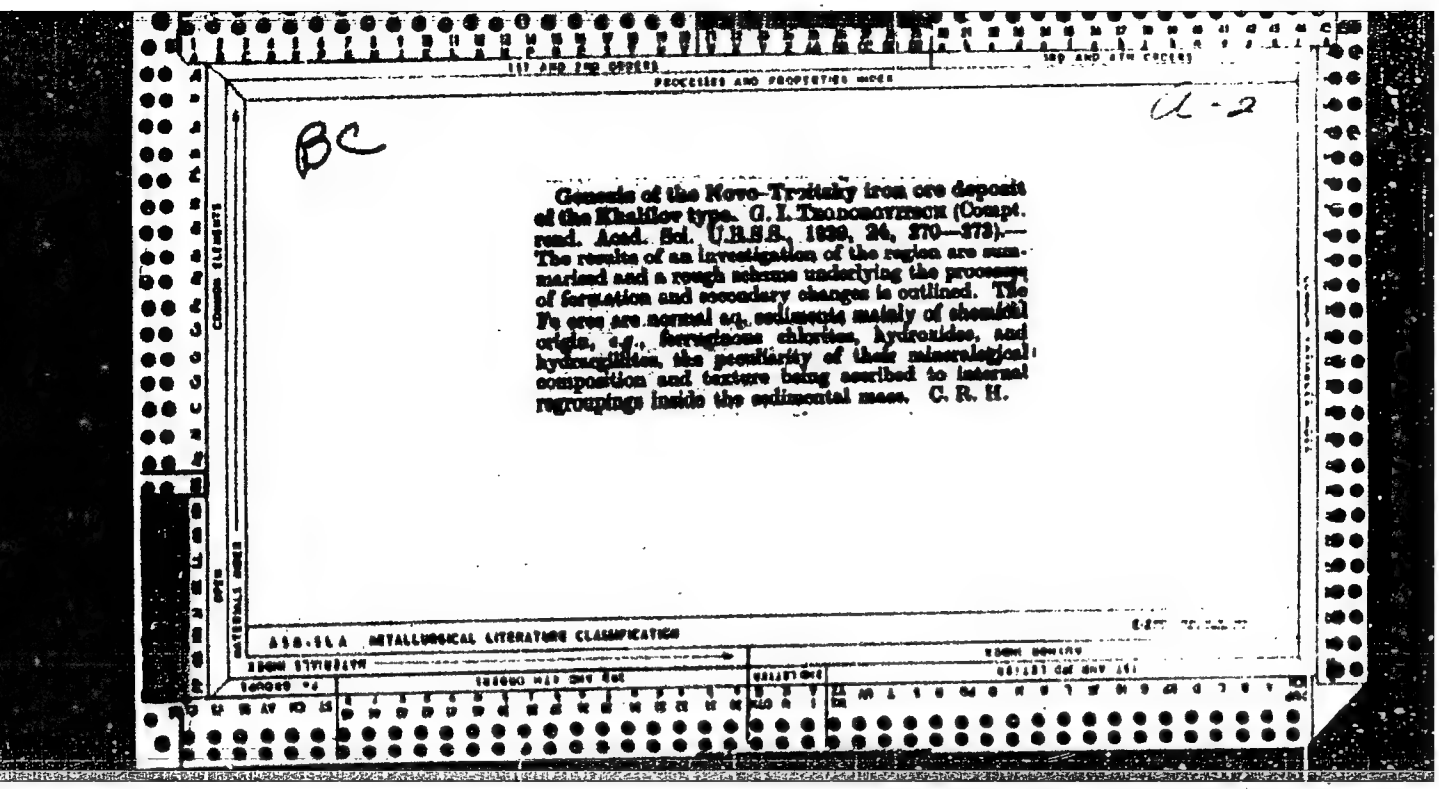

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A-2

Genesis of the Novo-Troitsky iron ore deposit of the Khalilov type. G. I. THOMOGOVTSCH (Compt. rend. Acad. Sci. U.R.S.S., 1936, 24, 370—373).—The results of an investigation of the region are summarised and a rough scheme underlying the processes of formation and secondary changes is outlined. The Fe ores are normal sed. sediments mainly of chemical origin, e.g., ferruginous chlorites, hydroxides, and hydrosilicates, the peculiarity of their mineralogical composition and texture being ascribed to internal regroupings inside the sedimental mass. C. R. H.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

T[illegible]ODOROV[illegible]CH, Georgiy Ivanovich

"Khoper Beds in Orsk-Khalilova Region," Dokl. Ak. Nauk SSSR, 25, No. 4, 1939.

Inst. Geol. Sci., Dept. Geologico-Geographical Sci. Acad. Sci. USSR

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

K voprosu o tak nazyvayemom kontinental'nom me le Oroko-Khalilovskogo rayona 1940

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

MIGRATSIYA VERKHNE-PALEOZOYSKIKH RIFOV DKHNOY BASHKIRII 1941

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

Sulphur as an indicator in prospecting for oil, on the evidence obtained in the region of Storlitamak-Ishimbaevo. O. I. Teolorovitsch (Compt. rend. Acad. Sci. U. R. S. S., 1942, 34, 121-125).—When accompanied by bitumens, gaseous, liquid, or solid, or their traces, native S indicates the presence of oil at lower horizons.
L. S. T.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

Dolomitisation in the eastern massif of the Ishimbaevo oil region. G. I. Teodorovitsch (*Compt. rend. Acad. Sci. U.R.S.S.*, 1942, **34**, 199–201).—The deposits of the central shallow bay of this massif are characterised by an alternation of anhydrite-bearing dolomites, spotted anhydrite-dolomitic rocks, dolomitic limestones containing anhydrits, and occasionally pure limestones. The process of dolomitisation suggested by a petrographic examination of core samples of these deposits is discussed. L. S. T.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

"Structure of the Pore Space of Carbonate Oil Reservoir Rocks and their Permeability, as Illustrated by Paleozoic Reservoirs of Bashkiria," 1943.

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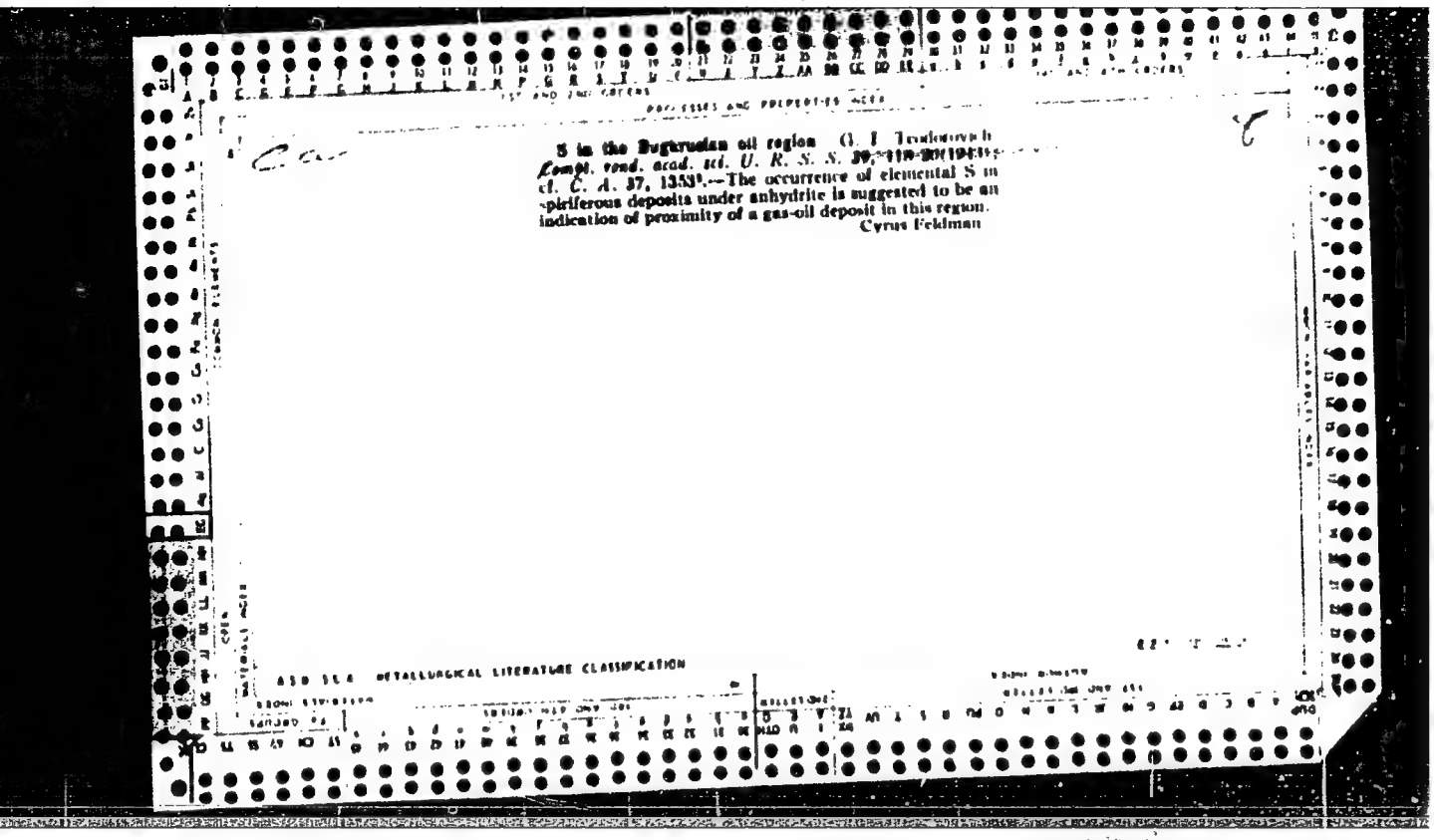
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX



S in the Bugurusian oil region G. I. Teodorovich *Compt. rend. acad. sci. U. R. S. S.* 39, 119-20(1943); cf. *C. A.* 37, 1353[3].—The occurrence of elemental S in spiriferous deposits under anhydrite is suggested to be an indication of proximity of a gas-oil deposit in this region.

Cyrus Feldman

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

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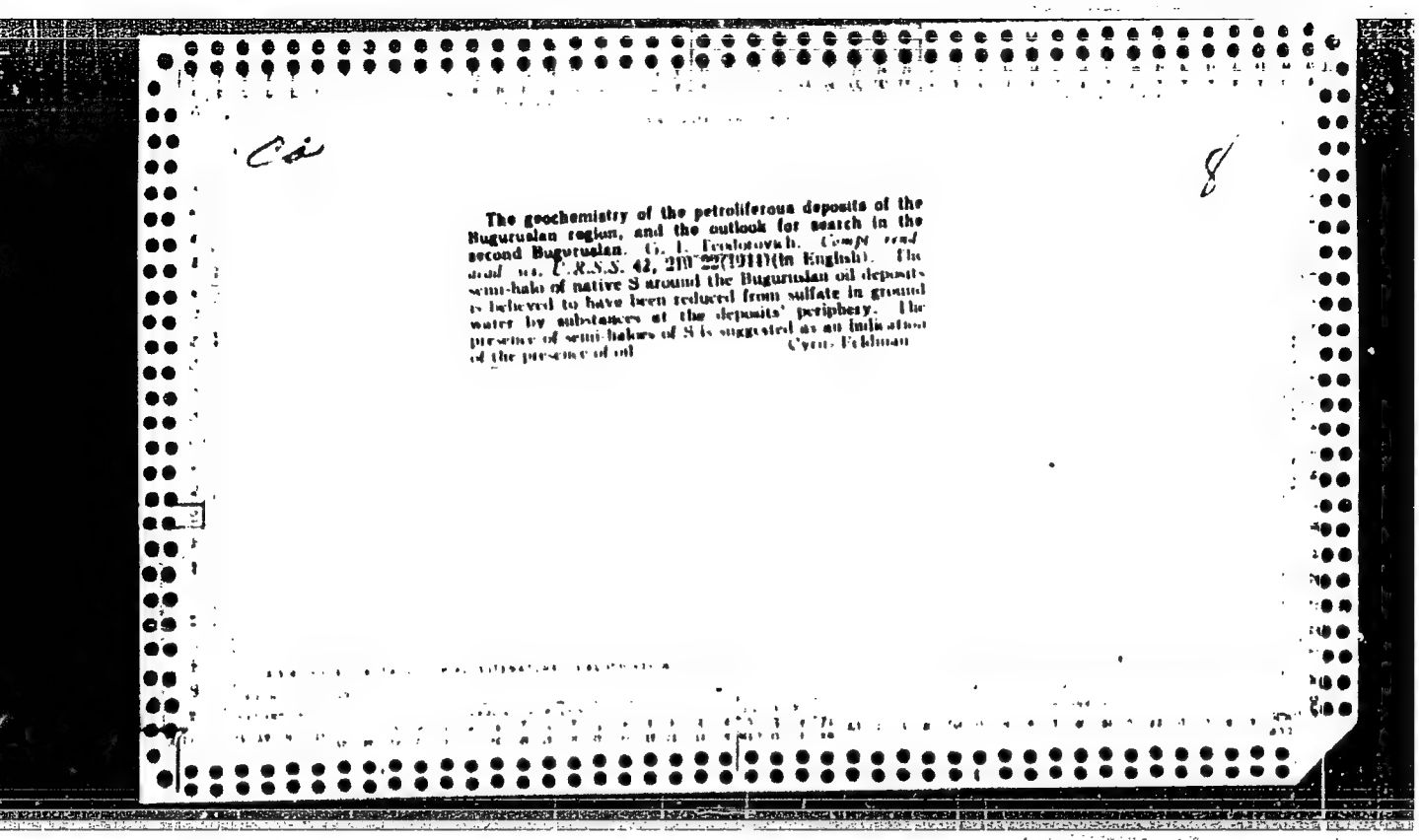

The geochemistry of the petroliferous deposits of the Bugurusian region, and the outlook for search in the second Bugurusian. G. L. Tvalchrelidze. *Compt. rend. acad. sci. U.R.S.S.* 42, 209–27(1944)(in English). The semi-halo of native S around the Bugurusian oil deposits is believed to have been reduced from sulfate in ground water by substances at the deposits' periphery. The presence of semi-haloes of S is suggested as an indication of the presence of oil. Cyrus Feldman

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

O proiskhozhdenii Suturo-Stilolitovykh Poverkhnostey 1945

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TEODOROV, T.

Surgical therapy of paronychia in the XIII Poliklinika in Sofia. Results during the period of 1952 to 1959 inclusively. Khirurgiia, Sofia 13 no.2-3:252-254 '60.
(PARONYCHIA surg.)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH G. I.

10T26

May 1945

USSR/Geology
Rock formation

"The Bashkirian Stage of the Middle Carboniferous," G. I. Teodorovich, 7 pp

"Izv Ak Nauk Ser Geol" No 5

Study of section of the Middle Carboniferous of the Zilim River, western slope of the Southern Urals.

10T26

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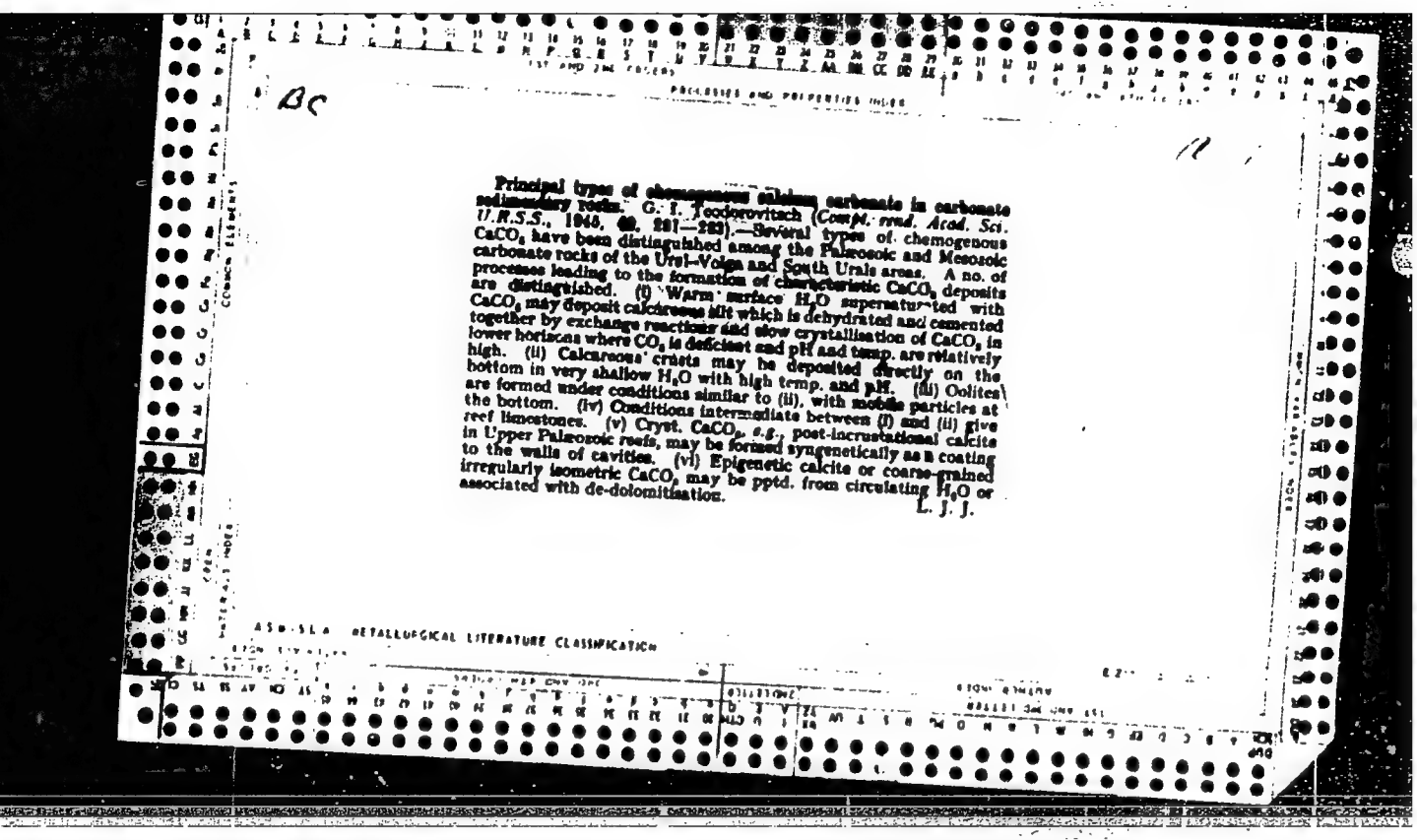

Bc

Principal types of chemogenous silicious carbonate in carbonate sedimentary rocks. G. I. Teodorovitch (*Compt. rend. Acad. Sci. U.R.S.S.*, 1948, **60**, 281—283).—Several types of chemogenous $CaCO_3$ have been distinguished among the Palæozoic and Mesozoic carbonate rocks of the Ural–Volga and South Urals areas. A no. of processes leading to the formation of characteristic $CaCO_3$ deposits are distinguished. (i) Warm surface H_2O supersaturated with $CaCO_3$ may deposit calcareous silt which is dehydrated and cemented together by exchange reactions and slow crystallisation of $CaCO_3$ in lower horizons where CO_2 is deficient and pH and temp. are relatively high. (ii) Calcareous crusts may be deposited directly on the bottom in very shallow H_2O with high temp. and pH. (iii) Oolites are formed under conditions similar to (ii), with mobile particles at the bottom. (iv) Conditions intermediate between (i) and (ii) give reef limestones. (v) Cryst. $CaCO_3$, *e.g.*, post-incrustational calcite in Upper Palæozoic reefs, may be formed syngenetically as a coating to the walls of cavities. (vi) Epigenetic calcite or coarse-grained irregularly isometric $CaCO_3$ may be ppted. from circulating H_2O or associated with de-dolomitisation.

L. J. J.

ASSLA METALLURGICAL LITERATURE CLASSIFICATION

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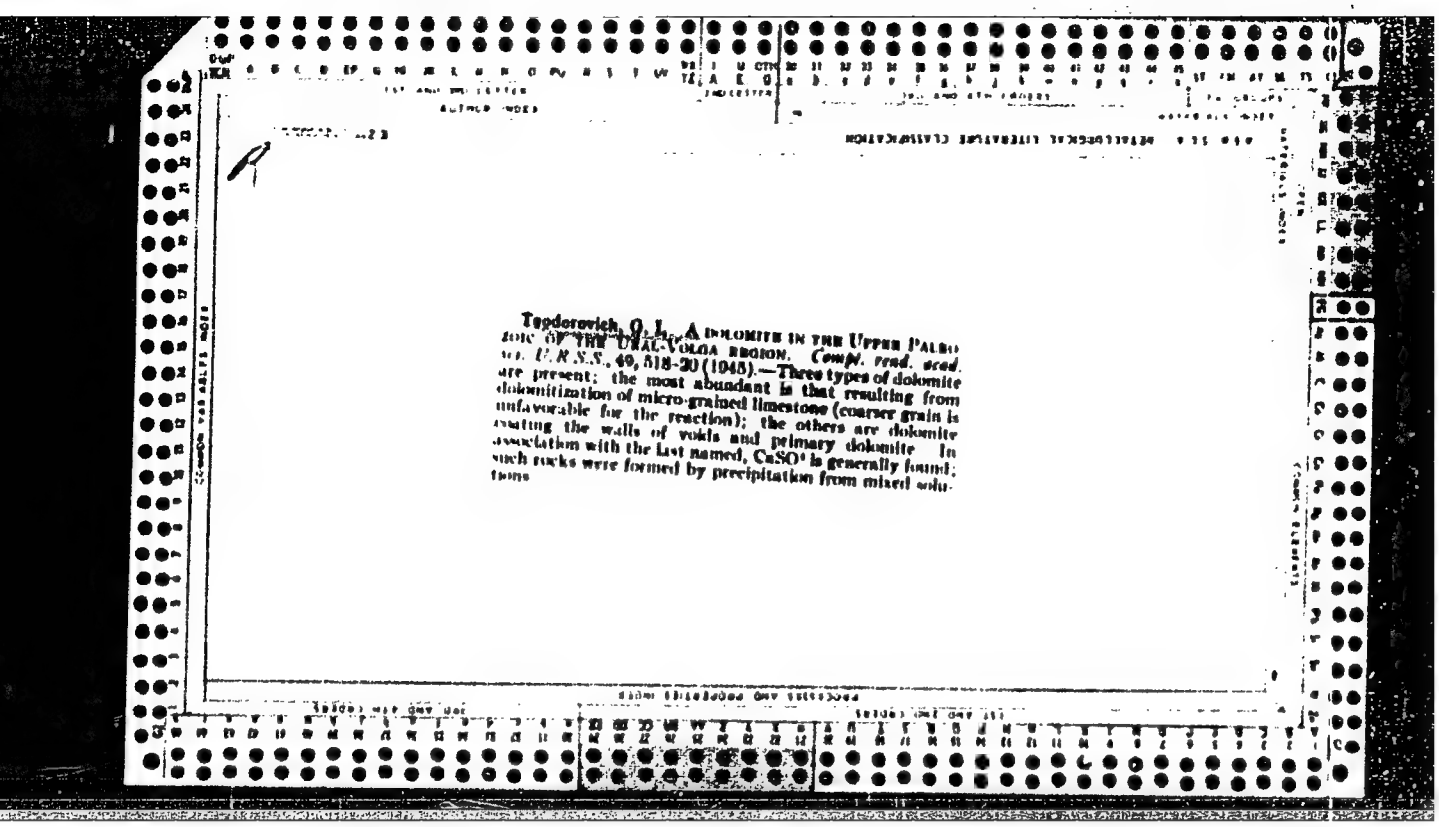

Teodorovich, G. I. A DOLOMITE IN THE UPPER PALEOZOIC OF THE URAL-VOLGA REGION. *Compt. rend. acad. sci. U.R.S.S.*, 49, 518-20 (1945).—Three types of dolomite are present; the most abundant is that resulting from dolomitization of micro-grained limestone (coarser grain is unfavorable for the reaction); the others are dolomite coating the walls of voids and primary dolomite. In association with the last named, $CaSO^4$ is generally found; such rocks were formed by precipitation from mixed solutions.

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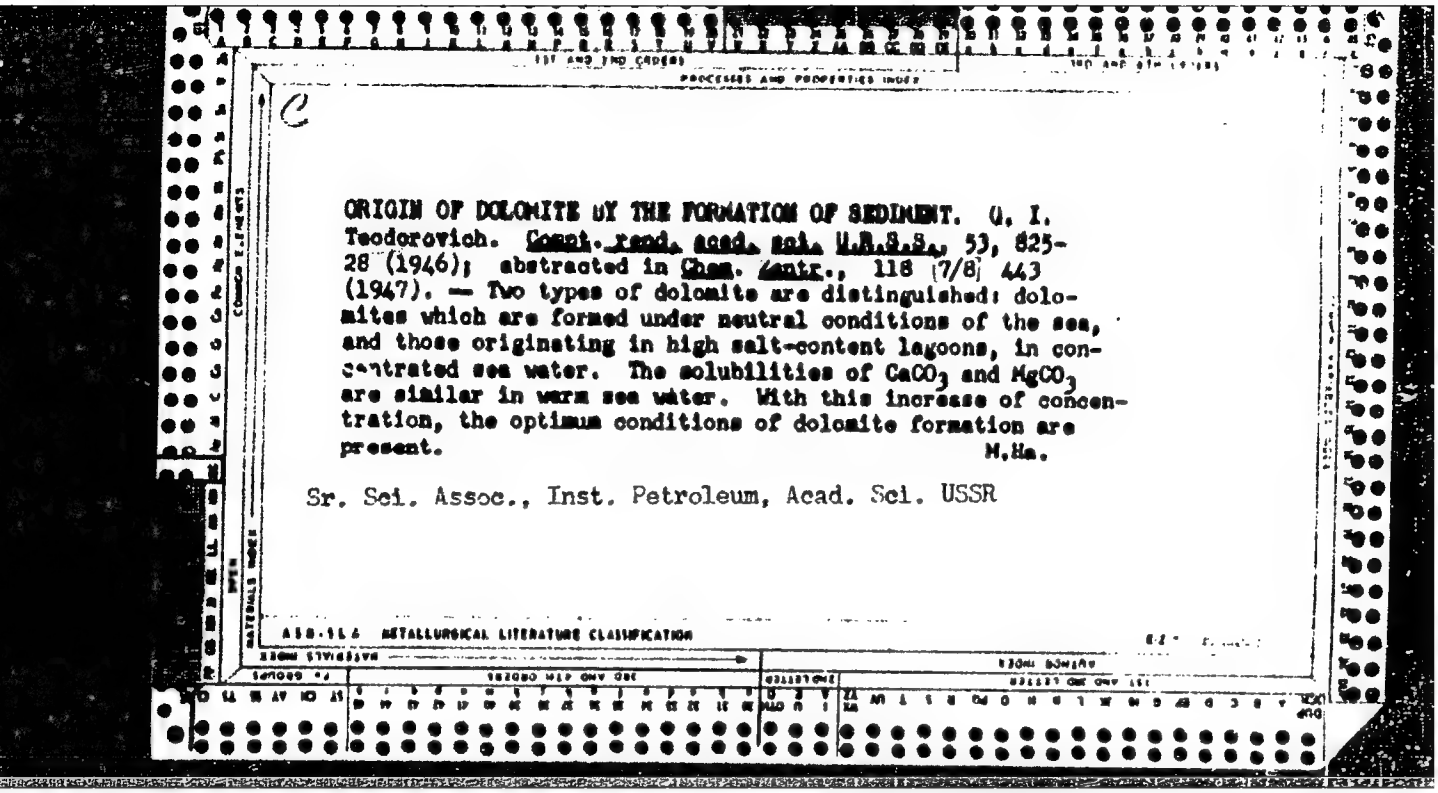
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX



C

ORIGIN OF DOLOMITE BY THE FORMATION OF SEDIMENT. G. I. Teodorovich. Compt. rend. acad. sci. U.R.S.S., 53, 825-28 (1946); abstracted in Chem. Zentr., 118 (7/8) 443 (1947). — Two types of dolomite are distinguished: dolomites which are formed under neutral conditions of the sea, and those originating in high salt-content lagoons, in concentrated sea water. The solubilities of $CaCO_3$ and $MgCO_3$ are similar in warm sea water. With this increase of concentration, the optimum conditions of dolomite formation are present. M.Ha.

Sr. Sci. Assoc., Inst. Petroleum, Acad. Sci. USSR

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

Teodorovich, G. I. Dr. Geolog. - Mineralog. Sci.

Disseration: "Carbonate Factions of the Sakmara-Arta and Upper Coal Deposits of Tataria, Western Bashkiria and Adjacent Areas in Connection with Petroleum Prospecting." Inst. of Mineral Fuels, Acad. Sci USSR 12 Jun 47

SO: Vechernyaya Moskva Jun 1947 (Proj. #17836)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

USSR/Geology
Petrography
Geochemistry

Nov/Dec 48

"A Review of the Main Works in the Lithology of Sedimentary Rock in the USSR During the Last 30 Years," S. G. Sarkisyan, G. I. Teodorovich, 9 pp

"Iz Ak Nauk SSSR, Ser Geol" No 6

Discusses the many published works on this subject under four categories: (1) petrography including mineralogy and paleogeography of terrigenous components, (2) rocks in general, studied chiefly by transparent section method, (3) geochemical trend

60/49T40

USSR/Geology (Contd)

Nov/Dec 48

in petrography of sedimentary rock, and (4) petrographic studies of contemporary deposition. A bibliography of 96 works is appended.

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TEODOROVICH, G.I.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

USSR/Medicine - Paleontology Jan/Feb 1948
Medicine - Fossils

"Types and Migration of the Sakmarsk-Artinsk Phases of Tartary, Western Bashkiriya and Adjacent Regions," G. I. Teodorovitch, 19 pp

"Byul Mosk Obshch Ispy Prirod, Nova Ser, Vol LIII, Otdel Geolog" Vol XXIII, No 1

Distinguishes basic phase types of Sakmarsk-Artinsk deposits of Tartary, Western Bashkiriya and adjacent regions of Kuybyshev, Chkalov and Molotov Oblasts. Carbotarrigenous phases of eastern slope, deep water zone phases, and carbonaceous phases of western slope are established within boundaries of pre-Ural subsidence. Carbonaceous marine and sea-lagoon phases are distinguished within limits of platform. In Bashkir pre-Ural, and on western slope of Ural, all phases of Sakmarsk-Artinsk deposits have migrated regularly.

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TEODOROVITCH, G. I.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G.I.; YANSHIN, A.L., red.; PERMYAKOVA, A.I., red.izd-va

[Carbonate facies of the lower Permian and upper Carboniferous in the Ural-Volga region] Karbonatnye fatsii zizhei Permi-verkhnego karbona Uralo-Volzhskoi oblasti. Moskva, Izd-vo Mosk. ob-va ispytatelei prirody, 1949. 293 p. (Materialy k poznaniiu geologicheskogo stroeniia SSSR., no.13). (MIRA 11:4)

1.Chlen Soveta Moskovskogo obshchestva ispytateley prirody (for Yanshin).
(Ural Mountain region--Geology)
(Volga Valley--Geology)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G.I.

[illegible] CHEMICAL SEA OR SALT LAKE SIDERITE STRATA AS [illegible] OF PETROLEUM FORMATION. Teodorovich, G.I. [illegible] (Dokl. Akad. [illegible] (Rep. [illegible] Sci. U.S.S.R.), 11 Nov. [illegible], ([illegible]-230). Siderite and [illegible], formed at oxidation-reduction [illegible] of bottom mud in shallow saline waters, is associated with presence [illegible] possibility of [illegible] conversion of organic [illegible], catalysed by [illegible], is discussed. (L). [illegible]

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

23045 O podrazdelenii verkhnego karbona na yarusy. Doklady akad. Nauk sssr, novaya seriya, T. LXVII, No. 3, 1949, C. 537-40. - Bibliogr: 21 nazv.

SO: LETOPIS' NO. 31. 1949

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

Siderite facies in sea water, and petroleum formation. G. I. Teodorovich. *Doklady Akad. Nauk S.S.S.R.* 69, 227–30(1949).—The formation of siderite sediments from salt water, especially in the littoral regions or in shallow depths near the shore, is marked by a boundary level of prevailing oxidation and reduction reactions. Leptochlorites and glauconite are typical products of deeper-water sediment facies. The oxidation-reduction level is highly variable, and therefore often no sharp limits of mineralization are observed. Even FeS_2 may occur amidst the siderite horizons as an indication of reduction conditions. Climatic rhythms are equally observed. The siderite facies may even be assocd. with fresh-water sands, clays, and carbonate sediments formed in shallow depths. In the Devonian sediments of Bashkiriya, S. E. Tartariya, Kuibishevsk, and Chkalovsk, an intimate relation between $FeCO_3$ (and FeS_2) contg. horizons with petroleum-bearing sediments was observed. $FeCO_3$ is easily characterized by its spherulithic structure, FeS_2 as a very late mineralization indicating the reaction of H_2S with the Fe^{++}-contg. sediments. Siderite is entirely absent in limestones and marls of the Ural-Volga region which contain a normal marine fauna but do not bring petroleum. The relation of $FeCO_3$ horizons with the petroleum-bearing horizons is particularly well observed in the Maikop region in which there are typical littoral sediments, and similar conditions are valid in dolomites of Alaiak, Bukhara, Turkestan, and Fergana. The org. material is enriched in the siderite facies, and montmorillonite in it may have acted as a low-temp. catalyst for petroleum formation. Sea water is also favorable for the hydrogenation conditions of bituminous products, while in fresh water coal formation prevails, an observation which is often valid in the sediments of the Russian platform. For bitumen formation the higher soly. of $FeCO_3$ and bicarbonate in CO_2-rich mud waters than that of FeS_2 is also favorable. Tight sealing of such basins of siderite facies by impermeable clays above the sediments brings about the well-known accumulation of gaseous reaction products under high pressures, and petroleum may migrate from deeper layers into structural "traps" of higher levels. W. Eitel

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, Georgiy Ivanovich

Author of "Phases of the Lower Permian and Upper Carboniferous of the Ural Volga Region" Moscow, 1949-50 bt
SO:SUM 46, 18 June 1951

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

"Methodology of Carbonate Species of Paleozoia of the Ural-Volga Area," Moscow, 1950

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1"

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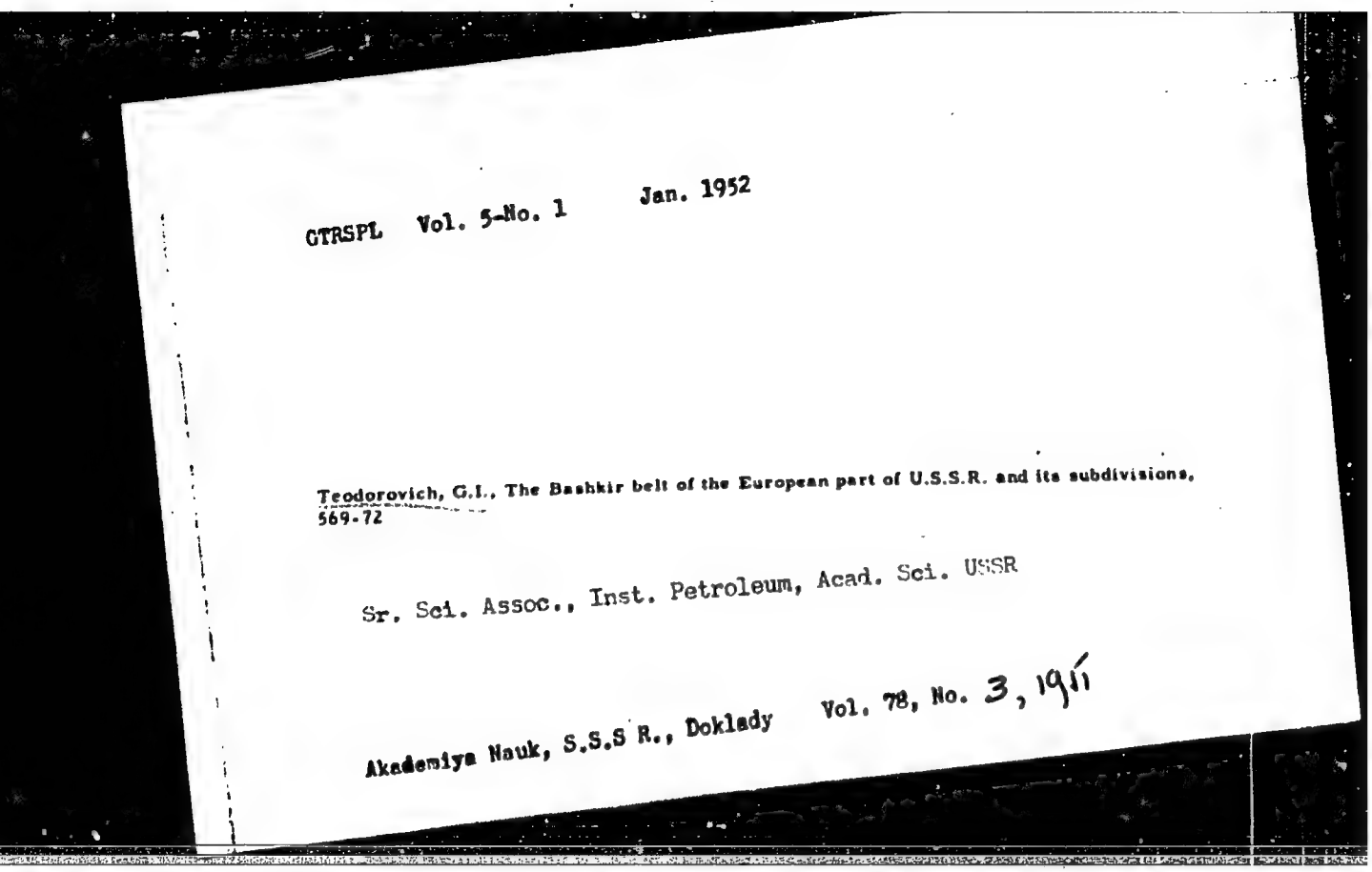

GTRSPL Vol. 5-No. 1 Jan. 1952

Teodorovich, G.I., The Bashkir belt of the European part of U.S.S.R. and its subdivisions, 569-72

Sr. Sci. Assoc., Inst. Petroleum, Acad. Sci. USSR

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 3, 1951

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

1. TEODOROVICH, G. I.

2. SSSR (600)

4. Ural Mountain Region-Petroleum-Geology

7. Periodicity in the profile of possible oil-bearing formations; based on example of the Devon in the Ural-Volga region.
Dokl. AN SSSR 86 No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G.I.

The Bashkirian and Namur stages of European U.S.S.R. Trudy Inst. nefti 3:44-88 '54. (MLRA 8:6)
(Geology, Stratigraphic)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G.I.

Study of oil reservoir rocks. Biul.MOIP. Otd.geol. 29 no.3: 59-66 My-Je '54. (MLRA 7:8)
(Petroleum geology)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755310008-1

TEODOROVICH, G. I.

AID P - 575

Subject : USSR/Mining

Card 1/1 Pub. 78 - 12/22

Author : Teodorovich, G. I.

Title : Petroleum producing strata

Periodical : Neft. Khoz., v. 32, #8, 52-55, Ag 1954

Abstract : The author reviews early theories on the organic nature of the petroleum formation based on the complex geological data of I. M. Gubkin and on the experimental studies of the organic chemists N. D. Zelinsky and others. The author also extends his discussion to the transformation of shallow sea water and coastal bacteriological deposits and the silt of animal and vegetable nature mixed with mineral masses. 12 Russian references (1927-1952).

Institution : None

Submitted : No date

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